

Claims

1. An apparatus for the firing of a cartridge for firearms, wherein the apparatus (11) is arranged within the cartridge (3), having
an interface (12) for communicating with an apparatus (1) which is arranged out of the cartridge,
a control means (14) and
a security means which can be released by a signal transmitted from the control means (14).
2. The apparatus according to claim 1, wherein the security means is an energy barrier (15).
3. The apparatus according to claim 1 or 2, wherein the apparatus comprises a firing transducer (16).
4. The apparatus according to claim 3, wherein the firing transducer (16) effects a firing of the cartridge (3) depending on a firing energy supplied over the interface (12).
5. The apparatus according to any one of the preceding claims, wherein the firing energy is supplied to the firing transducer (16) depending on the releasing of the security means or energy barrier (15).
6. The apparatus according to any one of the preceding claims, wherein the firing energy is inhibited, blocked and/or passed by the firing transducer (16) by the security means or energy barrier (15).
7. The apparatus according to any one of the preceding claims, wherein the firing transducer (16) can be permanently inactivated by a respective outer impact.
8. The apparatus according to any one of the preceding claims, wherein the apparatus comprises a memory (13).
9. The apparatus according to claim 8, wherein the data stored can be at least partially read from the memory (13).
10. The apparatus according to any one of the preceding claims, wherein the control means (14) compares the stored and received data.

11. The apparatus according to claim 10, wherein the control means (14) only releases the security and thus enables a firing if the stored and received data match.
12. The apparatus according to claim 10 or 11, wherein at least the data used for comparing cannot be read from the memory in an unauthorized manner.
13. The apparatus according to any one of the preceding claims, wherein the apparatus comprises at least one chip or microchip (20).
14. The apparatus according to any one of the preceding claims, wherein the apparatus is a percussion cap or is integrated in such.
15. The apparatus according to any one of the preceding claims, wherein the apparatus is protected against attacks by electrical, mechanical, chemical, thermal energy and/or radiation.
16. The apparatus according to claim 15, wherein such attacks lead to a permanent destruction of the capability to fire the cartridge.
17. An apparatus for releasing a cartridge for firearms, wherein the apparatus is arranged within the firearm (17), having
 - an operating device (6) calculating releasing data, and
 - a cartridge interface (2) for communicating with a cartridge (3) and for transmitting the releasing data.
18. The apparatus according to claim 17, wherein the apparatus comprises at least one data interface (7) and/or at least one authentication interface (8).
19. The apparatus according to claim 17 or 18, wherein the apparatus comprises a control (5).
20. The apparatus according to any one of claims 17 to 19, wherein the operating device (6) can be divided such that at least one part of the operating device (6) is assigned to the firearm and/or at least one part of the operating device (6) is assigned to the munitions and/or at least one part of the operating device (6) is assigned to a user.
21. The apparatus according to any one of claims 17 to 20, wherein the apparatus comprises a trigger sensor (9).

22. The apparatus according to any one of claims 17 to 21, wherein the apparatus comprises a data memory (10).
23. The apparatus according to any one of claims 17 to 22, wherein the apparatus comprises a firing impulse generator (4).
24. The apparatus according to any one of claims 17 to 23, wherein the authentication interface (8) is a transponder interface and/or a biometric sensor.
25. The apparatus according to any one of claims 17 to 24, wherein the operating device (6) and/or the data memory (10) are such formed that data can be stored and/or processed securely against unauthorized reading and manipulation.
26. An apparatus for securing the firing of a shot from a firearm, comprising at least one apparatus according to any one of claims 1 to 16 and at least one apparatus according to any one of claims 17 to 25.
27. Munitions for firearms, characterized in that the munitions comprise a securing device which can be released by transmitting of predetermined data.
28. Munitions for firearms according to claim 27, comprising an apparatus according to any one of claims 1 to 16.
29. A method for securing cartridges for firearms, wherein the cartridge can be released by transmitting predetermined data.
30. A method for securing cartridges for firearms, comprising the steps of:
reading of a cartridge identity,
determining a cartridge password on the basis of the cartridge identity, and
transmitting the cartridge password to the cartridge,
wherein the cartridge only allows a firing if the correct password has been determined.
31. The method according to claim 30, wherein user-, firearm- and or surrounding data are necessary for performing the determining of the cartridge password and/or for correctly determining the cartridge password.